# **WEST Search History**

DATE: Thursday, May 08, 2003

Set Name		Hit Count	Set Name result set
DB=U	SPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
L9	L8	41	L9
L8	(((118/715)!.CCLS.)) and 12	41	L8
L7	((49/386)!.CCLS.) and 12	0	L7
L6	((134/8 or 134/22.1).ccls.) and l2	3	L6
L5	l2 and (guide roller)	1	L5
L4	L2 and cleaning	134	L4
L3	L2 and (rotation actuator)	1	L3
L2	L1 and ((CVD) or (chemical vapor depostion process chamber))	170	L2
L1	lid assembly	1951	L1

END OF SEARCH HISTORY

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## **Search Results -** Record(s) 1 through 1 of 1 returned.

1. Document ID: WO 200227061 A2

L3: Entry 1 of 1

File: DWPI

Apr 4, 2002

DERWENT-ACC-NO: 2002-340026

DERWENT-WEEK: 200264

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TITLE: Lid assembly for a chemical vapor deposition process chamber, includes a

moveable lid with integrated open/close mechanism

INVENTOR: BLONIGAN, W T; KURITA, S

PRIORITY-DATA: 2000US-0671504 (September 26, 2000)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

WO 200227061 A2

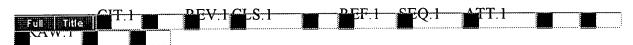
April 4, 2002

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C23C016/00

INT-CL (IPC): C23 C 16/00



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Term	Documents
ROTATION.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1419518
ROTATIONS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	54801
ACTUATOR.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	348524
ACTUATORS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	98675
(2 AND (ROTATION ADJ ACTUATOR)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1
(L2 AND (ROTATION ACTUATOR)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1

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## Search Results - Record(s) 1 through 3 of 3 returned.

1. Document ID: US 6374831 B1

L6: Entry 1 of 3

File: USPT

Apr 23, 2002

US-PAT-NO: 6374831

DOCUMENT-IDENTIFIER: US 6374831 B1

TITLE: Accelerated plasma clean

DATE-ISSUED: April 23, 2002

INVENTOR-INFORMATION:

STATE ZIP CODE COUNTRY CITY NAME CA Milpitas Chandran; Shankar N. San Jose CA Hendrickson; Scott CA Sunnyvale Jones; Gwendolyn D. Santa Clara CA Venkataraman; Shankar Millbrae CA Yieh; Ellie

US-CL-CURRENT:  $\underline{134}/\underline{1.1}$ ;  $\underline{134}/\underline{1}$ ,  $\underline{134}/\underline{22.1}$ ,  $\underline{134}/\underline{22.18}$ ,  $\underline{134}/\underline{902}$ ,  $\underline{438}/\underline{905}$ 

#### ABSTRACT:

A method and apparatus that reduces the time required to clean a processing chamber employing a reactive plasma cleaning process. A plasma is formed in an Astron fluorine source generator from a flow of substantially pure inert-source gas. After formation of the plasma, a flow of a fluorine source gas is introduced therein such that the fluorine source flow accelerates at a rate no greater than 1.67 standard cubic centimeters per second.sup.2 (scc/s.sub.2). In this fashion, the plasma contains a plurality of radicals and dissociated inert-source gas atoms, defining a cleaning mixture. The ratio of inert-source gas to fluorine source is greater than 1:1.

15 Claims, 11 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 11

Full Title Citation Front Review Classification Date Reference	Sequences	Attachments	Claims KWIC
Draw Desc   Image			

2. Document ID: US 6347636 B1

L6: Entry 2 of 3

File: USPT

Feb 19, 2002

US-PAT-NO: 6347636

DOCUMENT-IDENTIFIER: US 6347636 B1

TITLE: Methods and apparatus for gettering fluorine from chamber material surfaces

DATE-ISSUED: February 19, 2002

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME San Jose CA Xia; Li-Qun Sivaramakrishnan; Visweswaren Santa Clara CA CA Nemani; Srinivas Milpitas Milbrae CA Yieh; Ellie Cupertino CA Fong; Gary

US-CL-CURRENT: 134/1.1; 134/22.1, 216/67, 438/905

#### ABSTRACT:

The present invention provides systems, methods and apparatus for high temperature (at least about 500-800.degree. C.) processing of semiconductor wafers. The systems, methods and apparatus of the present invention allow multiple process steps to be performed in situ in the same chamber to reduce total processing time and to ensure high quality processing for high aspect ratio devices. Performing multiple process steps in the same chamber also increases the control of the process parameters and reduces device damage. In particular, the present invention can provide high temperature deposition, heating and efficient cleaning for forming dielectric films having thickness uniformity, good gap fill capability, high density, low moisture, and other desired characteristics.

12 Claims, 58 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 42

Full Title Citation Front Review	Classification Date Reference	Sequences   Attachments   Cla	ims KWIC
Draw Desc   Image			

### 3. Document ID: US 5935340 A

L6: Entry 3 of 3

File: USPT

Aug 10, 1999

US-PAT-NO: 5935340

DOCUMENT-IDENTIFIER: US 5935340 A

TITLE: Method and apparatus for gettering fluorine from chamber material surfaces

DATE-ISSUED: August 10, 1999

#### INVENTOR-INFORMATION:

STATE ZIP CODE COUNTRY CITY NAME Santa Clara CA Xia; Li-Qun Santa Clara CA Sivaramakrishnan; Visweswaren San Jose CA Nemani; Srinivas CA Millbrae Yieh; Ellie Cupertino CA Fong; Gary

US-CL-CURRENT: 134/1.1; 134/22.1, 216/67

#### ABSTRACT:

The present invention provides systems, methods and apparatus for high temperature (at least about 500-800.degree. C.) processing of semiconductor wafers. The systems, methods and apparatus of the present invention allow multiple process steps to be performed in situ in the same chamber to reduce total processing time and to ensure high quality processing for high aspect ratio devices. Performing multiple process

steps in the same chamber also increases the control of the process parameters and reduces device damage. In particular, the present invention can provide high temperature deposition, heating and efficient cleaning for forming dielectric films having thickness uniformity, good gap fill capability, high density, low moisture, and other desired characteristics.

12 Claims, 58 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 42

Full Title Citation Front Review Classification Date Reference Sequences Attachments	KWIC
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Term	Documents
134/8.EPAB,JPAB,USPT,PGPB.	458
134/8S	0
"134/22.1".EPAB,JPAB,USPT,PGPB.	713
134/22.1S	0
(((134/8 OR "134/22.1").CCLS.) AND 2).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	3
(((134/8 OR 134/22.1).CCLS.) AND L2).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	3

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